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Bridge Inspection Project Database:

I am going to make a database that represents a bridge inspection contract. This will directly mirror a project I am working on in my full-time job. In it, my company sends out teams to inspect bridges throughout the commonwealth of Virginia. There are many types of relationships / entities in the contract that are as follows:

Entities:
1. Employees – They will have names, age, and certifications, salary, and ID.
2. Employee Types – This includes things such as QA Manager, Team Leader, Team Member., etc. Each employee type will have an associated charge rate to the client.
3. Certifications – Qualifications that an employee has. Includes items such as Professional Engineer (PE), Engineer in Training (EIT), Team Leader (TL), etc.
4. Bridges – The various bridges that will be inspected throughout Virginia.
5. Offices – Company Office Locations

Relationships:
1. Employees can only be associated with one Office
2. Employees can only be associated with one Employee Type.
3. Employees can have several certifications – Many-to-many relationship, many employees can have many certifications.
4. Employees can inspect/work on many bridges – Many to many relationship, many employees can work on many certifications